

DNA polymerase, JDF-3 DNA polymerase, PGB-D DNA polymerase and DP1/DP2 DNA polymerase.

50. (New) A kit for DNA synthesis comprising a mutant DNA polymerase which comprises a reduced DNA polymerization activity and packaging material therefore.

51. (New) A kit for DNA synthesis comprising a mutant DNA polymerase which comprises a 3'-5' exonuclease activity and a reduced DNA polymerization activity and packaging material therefore.

52. (New) The kit of claim 50 or 51, wherein said mutant DNA polymerase comprises a mutation in the partitioning domain or the polymerase domain.

53. (New) The kit of claim 51, wherein said mutant DNA polymerase is a mutant Pfu DNA polymerase.

54. (New) The kit of claim 53, wherein said mutant Pfu DNA polymerase comprises one or more mutations at amino acid positions selected from the group consisting of: D405, Y410, T542, D543, K593, Y595, Y385, G387, and G388.

55. (New) The kit of claim 54, wherein said mutant Pfu DNA polymerase comprises one or more mutations selected from the group consisting of: D405E, Y410F, T542P, D543G, K593T, Y595S, Y385Q, Y385S, Y385N, Y385L, Y385H, G387S, G387P, and G388P.

56. (New) The kit of claim 51, wherein said mutant DNA polymerase is derived from the group consisting of: UITma DNA polymerase, Tli DNA polymerase, KOD DNA polymerase, JDF-3 DNA polymerase, PGB-D DNA polymerase and DP1/DP2 DNA polymerase.

REMARKS

Upon entry of this amendment, claims 1-56 are pending. No new matter is introduced by this amendment. Support for the newly added claims may be found throughout the specification and at least at pages 19-34 and pages 52-61.

CONCLUSION

Applicant(s) submit(s) that all claims are allowable as written and respectfully request(s) early favorable action by the Examiner. If the Examiner believes that a telephone conversation

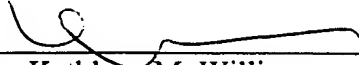
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with Applicant(s') attorney/agent would expedite prosecution of this application, the Examiner is cordially invited to call the undersigned attorney/agent of record.

Respectfully submitted,

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Name: Kathleen M. Williams
Registration No.: 34,380
Customer No.: 27495
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
Tel: 617-239-0100

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